

INDOOR DROP FIBRE OPTIC CABLES



Optical fibre



Flame retardant



Reduced smoke emission



Dielectric



Flexible cable



Zero halogen



ROHS compliant

STANDARDS

Cable construction: Telefónica ERQ.f6.0218 – 1st edition.
Fibres: ITU-T G657 A2.

DESCRIPTION AND APPLICATION

Drop optical fibre cables with 1 or 2 singlemode fibres for inside installations in FTTH systems.

These cables have a G.657-A2 bend-optimized fibre that is compliant with the installed base of G.652D fibre for indoor applications, for bend radii down to 10 mm. It provides low macro-bend and micro-bend loss and seamless splicing.

CONSTRUCTION

- **Loose tube:** Central PBT loose tube filled with thixotropic compound and containing 1 or 2 singlemode optical fibres according to ITU-T G.657 A2. Colour coding of fibres green and red.
- **Reinforcement:** Aramid yarns.
- **Outer jacket:** Ivory coloured LSZH compound.
- **Sheath marking :** The cable sheath will be marked with white ink at regular intervals with the following information :
 - *CABLESCOM / year / Number and type of fibres / batch number +length markings*
 - *Other sheath marks available upon request*

OPTICAL FIBRE CHARACTERISTICS

The parameters of the optical fibres are compliant with the ITU-T G.657 A2 recommendation.

See our fibre product sheet for the characteristics of the fibre

Optical transmission characteristics of cabled fibre :

Attenuation coefficient:

Average / maximum at 1310 nm: 0,36 / 0,37 dB/km

Average / maximum at 1550 nm: 0,22 / 0,24 dB/km

$PMD \leq 0,15 \text{ ps/km}^{1/2}$

$PMD \text{ link} \leq 0,10 \text{ ps/km}^{1/2}$

Cut-off wavelength(λ_{cc}) $\leq 1260\text{nm}$



All drawings, designs, specifications and particulars of weights, dimensions, etc. in this documentation are only indicative and must not be considered contractual.

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LOOSE TUBES AND FIBRE COLOUR CODE

# Fibre	Colour
1	Green
2	Red

Table 1: Colour coding fibre

MECHANICAL CHARACTERISTICS	Standards	Test Conditions
Tensile strength ($\Delta\alpha < 0.05$ dB)	IEC 60794-1-2 Met E1A	450 N
Crush resistance ($\Delta\alpha < 0.05$ dB)	IEC 60794-1-2 Met E3	800 N
Curvature ($\Delta\alpha < 0.05$ dB)	IEC 60794-1-2 Met E11	$r = 5 \times$ cable diameter
Impact resistance ($\Delta\alpha < 0.05$ dB)	IEC 60794-1-2 Met E4	2J/striking radius 300 mm
Temperature cycling (operation, $\Delta\alpha < 0.05$ dB)	IEC 60794-1-2 Met F1	-5°C / 60°C
Flame retardancy	EN 50265-1	pass
Corrosivity of the smoke	EN 50267-2-1	pH $\geq 4,3$; Conductivity ≤ 10 $\mu\text{s}/\text{mm}$
Smoke density	EN 50268-1	Transmittance $> 50\%$

DIMENSIONS AND WEIGHTS

Code	# fibres	Diameter (mm)	Nominal Weight (kg/km)
EE6202L00000102N	1	4,2	17
EE6202L00000202N	2	4,2	17

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